

----- Program Structure -----

M.Sc. (IMCA) SEMESTER I										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
P24/IMCA1MCT1	Core	Linear Algebra	03	-	20	30	50	2	-	2
P24/IMCA1MCP1		Lab on Linear Algebra using Python Programming	-	04	20	30	50	-	2	2
P24/IMCA1MCT2		Discrete Mathematics	05	-	40	60	100	4	-	4
P24/IMCA1MCT3		Object Oriented Programming using C++	03	-	20	30	50	2	-	2
P24/IMCA1MCT4		Relational Database Management System	03	-	20	30	50	2	-	2
P24/IMCA1MCP2		Lab on Object Oriented Programming using C++ and Relational Database Management System	-	04				-	2	2
P24/IMCA1MET1A	Elective	Numerical Analysis	03	-	20	30	50	2	-	2
P24/IMCA1MEP1A		Lab on Numerical Analysis using Python	-	04	20	30	50	-	2	2
OR		OR								
P24/IMCA1MET1B		Software Engineering & Testing	05	4	40	60	100	04	-	4
P24/IMCA1RMT	RM	Research Methodology	03	-	20	30	50	02	-	2
P24/IMCA1RMP		Lab on Research Methodology	-	04	100	-	-	-	02	2

M.Sc. (IMCA) SEMESTER II										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
P24/IMCA2MCT1	Core	Applied Algebra	03	-	20	30	50	2	-	2
P24/IMCA2MCT2		Foundation of Analysis	03	-	20	30	50	2	-	2
P24/IMCA2MCP1		Lab on Foundation of Analysis using Sage Math	-	04	20	30	50	-	2	2
P24/IMCA2MCT3		Data Structure using C++	05	-	40	60	100	4	-	4
P24/IMCA2MCT4		Python for Data Science	03	-	20	30	50	2	-	2
P24/IMCA2MCP2		Lab on Data Structure using C++ and Python for Data Science	-	04	20	30	50	-	2	2
P24/IMCA2MET1A	Elective	Statistical Methods	03	-	20	30	50	2	-	2
P24/IMCA2MEP1A		Lab on Statistical Methods	-	04	20	30	50	-	2	2
OR		OR								
P24/IMCA2MET1B		Advanced Database Technology	03	-	20	30	50	2	-	2
P24/IMCA2MEP1B		Lab on Advanced Database Technology	-	04	20	30	50	-	2	2
P24/IMCA2OJTP	OJT/FP	On Job Training or Field Project	-	02	40	60	100	-	4	4

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M.Sc. (IMCA) SEMESTER III										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
P24/IMCA3MCT1	Core	Computational Geometry	02	-	20	30	50	2	-	2
P24/IMCA3MCT2		Lab Course on Computational Geometry	-	04	20	30	50	-	2	2
P24/IMCA3MCP1		Ordinary Differential Equations	02	-	20	30	50	2	-	2
P24/IMCA3MCT3		Design and Analysis of Algorithms	04	-	40	60	100	4	-	4
P24/IMCA3MCT4		JAVA Programming	02	-	20	30	50	2	-	2
P24/IMCA3MCP2		Lab Course on JAVA Programming	-	04	20	30	50	-	2	2
P24/IMCA3MET1A	Elective	Web Technology	02	-	20	30	50	2	-	2
P24/IMCA3MEP1A		Lab Course on Web Technology	-	04	20	30	50	-	2	2
OR		OR								
P24/IMCA3MET1B		Data Mining and Data Warehousing	02	-	20	30	50	2	-	2
P24/IMCA3MEP1B		Lab on Data Mining and Data Warehousing	-	04	20	30	50	-	2	2
P24/IMCA3RPP	RP	Research Project	-	02	40	60	100	-	4	4

M.Sc. (IMCA) SEMESTER IV										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
P24/IMCA4MCT1	Core	Optimization Techniques	2	-	40	60	100	2	-	2
P24/IMCA4MCT2		Lab Course on Optimization Techniques	-	4	20	30	50	-	2	2
P24/IMCA4MCP1		Cloud Computing	2	-	40	60	100	2	-	2
P24/IMCA4MCT3		Machine Learning & Deep Learning Fundamentals	4	-	40	60	100	4	-	4
P24/IMCA4MCP2		Lab Course on Machine Learning & Deep Learning Fundamentals	-	4	20	30	50	2	-	2
P24/IMCA4MET1A	Elective	Advanced Web Technology	2	-	40	60	100	2	-	2
P24/IMCA4MEP1A		Lab Course on Advanced Web Technology	-	4	20	30	50	-	2	2
OR		OR								
P24/IMCA4MET1B		Big Data Analytics	02	-	40	60	100	2	-	2
P24/IMCA4MEP1B		Lab Course on Big Data Analytics	-	4	20	30	50	-	2	2
P24/IMCA4RPP	RP	Research Project	-	2	60	90	150	-	6	6